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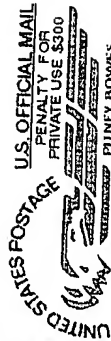
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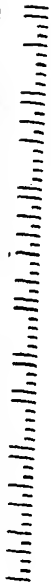
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# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,472	10/14/2003	Tsuneo Fujiwara	60,027 (70551)	6643

7590 04/19/2006  
Dike, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group  
Edwards & Angell, LLP  
P.O. Box 9169  
Boston, MA 02209



EXAMINER

LAMARRE, GUY J

ART UNIT PAPER NUMBER

2133

DATE MAILED: 04/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/686,472

Applicant(s)

FUJIWARA, TSUNEO

Examiner

Guy J. Lamarre

Art Unit

2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 14 October 2003.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

\* Pursuant to 35 USC 131, **Claims 1-20** are presented for examination.

#### **Claim Rejections - 35 USC ' 103**

**1.** The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**1.0** This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

**1.1** **Claims 1-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Applicants' Admitted prior art** (hereinafter **Admitted prior art**) in view of **Tatsuya**. (JP Publication No. 10-021651; 23 Jan. 1998) of IDS of record.

As per **Claim 1-20**, **Admitted prior art** substantially an equivalent offset correction for a coding system using maximum likelihood or Viterbi decoding as shown on pages 1 line 5 to page 4 line 5.

**Not specifically described** in detail in **Admitted prior art** is the step whereby offset correction involves statistical approximation such as standard deviation and metric differences.

**However**, **Tatsuya**, in an analogous art, discloses an equivalent algorithm for offset correction via statistical approximations such as standard deviation and metric differences at Abstract.

**Therefore**, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the coding system in **Admitted prior art** by including therein statistical (standard deviation/metric differences) techniques as taught by **Tatsuya**,

because such modification would provide the coding system of **Admitted prior art** with an advantageous algorithm whereby fewer samples are required to perform data adjustments to result in simplified/optimized data coding. {See Tatsuya, Id., Abstract.}

### **Drawings**

2. Figures 1-4 is objected to because the numerical labels do not convey adequate information to allow understanding of what is depicted without direct reference to the disclosure. Drawings shall be corrected accordingly. Appropriate correction to drawings as required by form PTO 948 shall be made in response to current Office action as per 37 CFR 1.85(a).

### **CONCLUSION**

\* Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231

or faxed to: (571) 273-8300 for all formal communications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy J. Lamarre, P.E., whose telephone number is (571) 272-3826. The examiner can normally be reached on Monday to Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert De Cady, can be reached at (571) 272-3819.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-3609.

Information regarding the status of an application may also be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/686,472

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Art Unit: 2133



Guy J. Lamarre, P.E

Primary Examiner

4/17/2006

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<b>FORM PTO-1449</b>			<b>DOCKET NO:</b> 60,027 (70551)		<b>SERIAL NO.:</b> <del>Unassigned</del> 10 686 472		
<b>INFORMATION DISCLOSURE STATEMENT</b>			<b>APPLICANT(S):</b> T. Fujiwara				
			<b>FILING DATE:</b> October 14, 2003		<b>GROUP NO.:</b> <del>Unassigned</del> 2133		
<b>UNITED STATES PATENT DOCUMENTS</b>							
EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	BA	06-243598	09/02/94	Japan	—	—	Abstract
(3)	BB	07-122000	05/12/95	Japan	—	—	Abstract
	BC	06-325504	11/25/94	Japan	—	—	Abstract
	BD	10-172238	06/26/98	Japan	—	—	Abstract
	BE	10-021651	01/23/98	Japan	—	—	Abstract
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
<b>EXAMINER:</b>  					<b>DATE:</b> 4 / 2 / 06		